

Technical parameters

Inputs	8 x IF inputs from 2xQuattro LNBs 1 x UHF/VHF input from Terrestrial antenna
Outputs	8 x loopthrough satellite IF outputs 1 x loopthrough terrestrial output 2 x Legacy output to connect to legacy receiver with combined terrestrial signal 1 x Unicable output to connect up to 8 receiver tuners with combined terrestrial signal
Frequency range	Satellite: 950-2150MHz Terrestrial: 47-862MHz
Loopthrough loss	Satellite: max 5 dB(Typ. 3dB) Terrestrial: max 5 dB(Typ. 3dB)
Gain	Satellite: 10dB (max.) Terrestrial: -15dB
Isolation	Satellite-Satellite outputs: min 30dB Satellite-Terrestrial : min 35dB
Control protocol	DiSEqC™ commands extension according to CENELEC prEN50494
Power consumption	19VDC, 350mA
Dimensions (W x H x D mm)	W=196 H=163 D=47 mm
Temperature range	-20C - +60C
AC/DC adaptor	Input voltage: 90-265VAC, 50/60Hz Output voltage: 19VDC Output current: 940mA Short circuit protection: Yes

Troubleshooting

Make sure the satellite antenna and LNB are properly fixed, connected and adjusted and that the satellite receivers are installed, connected and switched on according to available instructions. Ensure there is no short circuit on the product inputs. This will prevent power to the LNB. If this is the case, disconnect the product from the main power, and then find and remove the short circuit on the product inputs. Then re-connect the multiswitch to the main power. Frequent defects are in connector joints i.e. if the central conductor is too short and fails to make contact in the connector. Also the shielding braid should make proper contact with the connector coat. Sometimes a reset to the multiswitch microprocessor is sufficient to remove a fault: simply disconnect the multiswitch from main power for 30 seconds and then reconnect again. If you are unable to remove the fault yourself, please contact your distributor.

Disposal

Following relevant EU directives, this device shall not be disposed of together with municipal waste. Use local waste collection and recycling systems to dispose wore out products.

\*DiSEqC™ is a registered trademark of Eutelsat

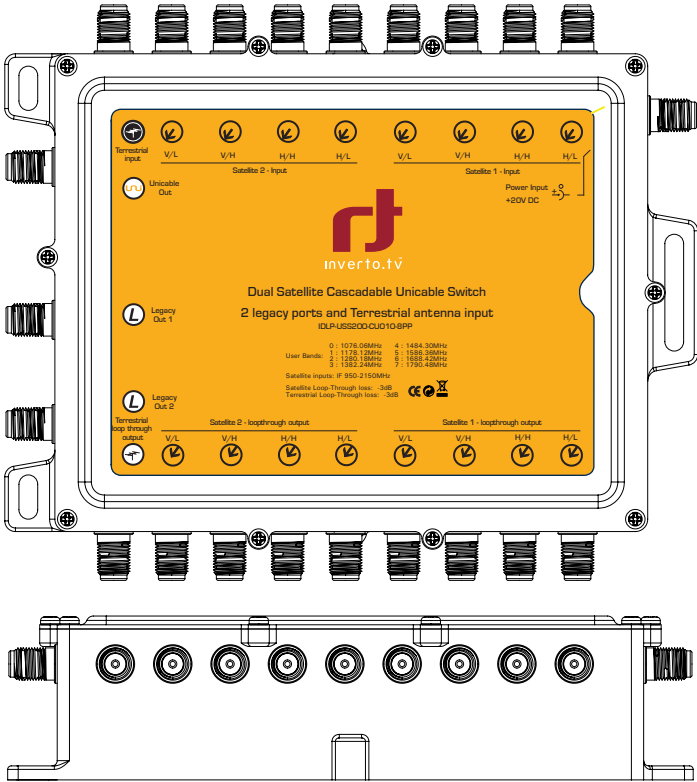
\*For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products. Inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and/ or features without notice. <https://rcpt.yousendit.com/734804689/01d10f524cd588e25266c997fcc287bc>



Dual Satellite Cascadable Unicable™ switch  
With 2 legacy ports and terrestrial input

IDLP-USS200-CU010-8PP

Installation manual



Thank you for purchasing Inverto's advanced Unicable multiswitch and we are certain it will meet your expectations. Before installing and operating the product, please read the following instructions and recommendations. We suggest that you keep this manual for future use.

## Warranty

The Unicable multiswitch is designed for the distribution of satellite and terrestrial television and radio signals in home installations. The warranty does not apply for products used for other purposes than those specified herein. The user/installer shall be responsible for any damage incurred as a result of not using the product according to the instructions in this manual.

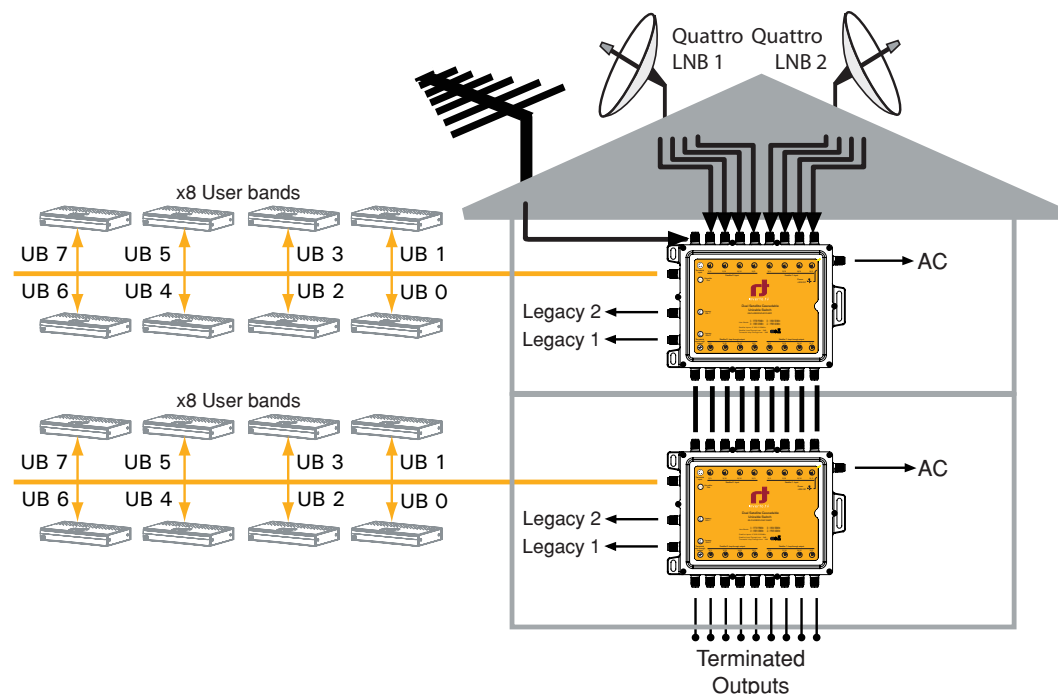
## Installation location

The product shall be installed on a wall or other hard inflammable surface.  
The product shall be in no case held only with the connected cables.  
Place the product in a dry environment where it is not exposed to rain or running water.  
Do not install the product close to heat sources or in places exposed to direct sunlight.

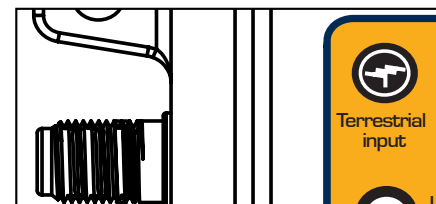
## Product installation

To connect the product inputs and outputs use high-quality coaxial cables designed for satellite reception and F-connectors. Use a high-shielding coaxial cables with minimum 90dB.  
If you use wall sockets to loopthrough the 8 user bands, make sure the wall sockets were designed for satellite reception compatible with Unicable technology and allows bidirectional signal propagation.

The following diagram describes the installation configurations supported by the product:



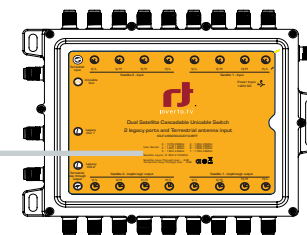
Connect the cables from the Quattro LNBs to the input connectors marked with LNB V/L, V/H, H/L and H/H inputs (pay attention to identification of the Quattro LNB connectors). The multiswitch is equipped with Terrestrial input. Connect the Terrestrial antenna to this input:



There are three output connectors: 2x Legacy and 1x Unicable.

The Legacy outputs are standard Universal switching outputs that allow connecting legacy receivers that are not supporting the Unicable protocol.  
The Unicable output allows to connect up to 8 receiver tuners – each needs to be allocated one of the 8 user bands supported by the multiswitch.  
Each receiver tuner is assigned with 1 out of 8 communication channel frequencies (user band). The frequencies are listed on the product label:

User Bands:	0 : 1076.06MHz	4 : 1484.30MHz
	1 : 1178.12MHz	5 : 1586.36MHz
	2 : 1280.18MHz	6 : 1688.42MHz
	3 : 1382.24MHz	7 : 1790.48MHz



For optimized performance, please follow the recommendations below:

1. use the highest frequency for a wall socket located the nearest to the multiswitch and use the lowest frequency for wall socket located farthest to the multiswitch.
2. If you install less than 8 receiver tuners, use the lowest frequencies first. We also recommend to keep record of the user bands allocated to the different connections as these user bands will then have to be set in the receiver. The satellite receivers connected to the multiswitch have to be Unicable-compatible (usually marked with Unicable™ logo).

Note: Loopthrough outputs that are not used should be terminated with 75ohm DC-blocked terminations.

## Safety

Never open a powered product. This may result in electrical hazard.  
Never work on the product, TV set or other powered devices during or before a storm. A lightning strike into the antenna may cause dangerous overvoltage over the product's metallic/conductive parts.  
Make sure the local electricity network corresponds to the operating voltage of the AC/DC adaptor.  
If the products gets into contact with liquid it must be disconnected from the main power.  
It is recommended to disconnect the product from the main power if it is not used for long periods of time.  
When disconnecting the product don't pull the cable but the plug to prevent damage of the cable (wobbly plugs and outlets result in fire risk).  
The product shall be serviced by qualified experts only.